

**THE REQUESTED PATENT IMAGE IS NOT AVAILABLE FROM THE EPO WEBSITE. BELOW IS THE ABSTRACT OF THE REQUESTED PATENT WHICH POSSIBLY LISTS RELATED PATENT DOCUMENTS. IF YOU FEEL THIS MESSAGE IS IN ERROR, PLEASE REATTEMPT DOWNLOADING THE PATENT OR DOUBLE-CHECK THE PATENT IMAGE AVAILABILITY AT <http://ep.espacenet.com>.**

Patent Number:  
Publication date: 1998-06-26  
Inventor(s): FUKUSHIMA AKIRA  
Applicant(s): DENSO CORP  
Requested Patent: JP10174403  
Application Number: JP19960333426 19961213  
Priority Number(s): JP19960333426 19961213  
IPC Classification: H02K23/32; H02K3/28; H02K23/04  
Equivalents:

### Abstract

**PROBLEM TO BE SOLVED:** To enhance improvements in lowering effect of armature torque ripple and the improving effect of commutator rectifying characteristics in a concentrated winding DC motor, which uses concentrated winding as the winding method of an armature coil. **SOLUTION:** An armature coil 25, around which two types of armature coil groups 1A to 1C, 2A to 2C are wound concentratedly for each slot, is wave- windingconnected around six, twice as many as the number of slots, the first to sixth commutator segments 1 to 6. For example, the armature coil group 1A connected to the first commutator segment 1 is wound a plurality of times clockwise around the slot at the first teeth 24A, which is connected to the sixth commutator segment 6. The armature coil group 2B connected to the sixth commutator segment 6 is wound a plurality of times counterclockwise around the slot at the second teeth 24B, which is connected to a fifth commutator segment 5. The armature coil groups 1B, 1C, 2A and 2C are also connected, satisfying a wave-winding condition in the same way.

Data supplied from the **esp@cenet** database - I2

### CLAIMS

No Claims were found.

### DESCRIPTION

Text Not Available.